

## Claims

- [c1] What is claimed is:
1. A cellular phone comprising:
    - a communication circuit for receiving an image signal and transmitting a radio-frequency (RF) signal via radio transmission;
    - a control module comprising:
      - a processor for controlling the cellular phone;
      - at least a button electrically connected to the processor for inputting a control signal to the processor when a user presses the button; and
      - a display panel electrically connected to the processor for displaying an operating status of the cellular phone;
    - a first audio module comprising:
      - a microphone for receiving an analog acoustic wave and converting the analog acoustic wave into a first audio signal; and
      - a modulator electrically connected to the microphone for modulating the first audio signal into the RF signal; and
    - a video module comprising:
      - a conversion circuit electrically connected to the communication circuit for converting the image signal into a video signal, the video signal comprising an analog brightness signal; and
      - an output terminal electrically connected to the conversion circuit for transmitting the video signal to a television;

wherein the television comprises a screen for displaying an image according to the brightness signal, and a brightness of the image accordingly changes from bright to dark when a level of the brightness signal increases from a first level corresponding to the bright image to a second level corresponding to the dark image.
  - [c2] 2. The cellular phone of claim 1 wherein the video signal further comprises a color burst signal, which is carried by a sine wave, for making the screen display a color image.
  - [c3] 3. The cellular phone of claim 1 wherein the video signal further comprises a horizontal synchronization signal for controlling a horizontal synchronization

frequency of the screen.

[c4] 4. The cellular phone of claim 1 wherein the video signal conforms to an image format defined by the National Television System Committee (NTSC).

[c5] 5. The cellular phone of claim 1 wherein the transmission circuit is capable of receiving a communication signal transmitted by radio transmission, and the cellular phone further comprises a second audio module comprising a demodulator electrically connected to the transmission circuit for converting the communication signal into a second audio signal and a speaker electrically connected to the demodulator for transforming the second audio signal into a corresponding acoustic wave.